

AMENDMENTS TO THE SPECIFICATION

Please replace the Abstract as originally filed with the following amended Abstract:

A battery pack containing a plurality of battery modules, said these modules comprising a plurality of individual battery units, said these battery units comprising a plurality of bicells with opposing terminals. The battery modules are connected in series by use of a flexible circuit and by opposing positive and negative terminals of each battery unit. The terminals of each battery unit contain a region of apertures which allow the adhesive of the envelope-like packaging material to seal more effectively by flowing through the apertures and sealing to itself, thereby eliminating or reducing the amount of leakage from an individual battery unit. The terminals pass through overlapped edges of the packaging material and include tangs for electrical connection to flaps formed in the flexible circuit.

Please replace the paragraph beginning on line 5 of page 11 in the Detailed Description of a Preferred Embodiment as originally filed [“In another aspect of the invention . . . exposed grids 90 of the plurality of bicells 78.”] with the following amended paragraph:

In another aspect of the invention, Figure 5 shows terminal 24 in greater detail. Terminal 24 comprises an electrically conductive tab and may be formed of copper or aluminum material. Terminal 24 allows individual battery unit 20 to be electrically connected to another individual battery unit 20, the flexible connection 14, or another electrical connection. The terminal 24 has a first region 96, a second region [[98]]98_a having apertures 99_a, a third region 100, a fourth region 102, a first locating hole 104 and a second locating hole 106. In the illustrated embodiment, terminal 24 has a tang 26 protruding from one edge of third region 100 along a lengthwise axis 101. The first region 96 may be welded to the exposed grids 90 of the plurality of bicells 78.

Please replace the paragraph beginning on line 17 of page 12 in the Detailed Description of a Preferred Embodiment as originally filed [“Figure 8 is a section view taken . . . hot melt adhesive of the packaging 80 to seal with itself.”] with the following amended paragraph:

Figure 8 is a section view taken substantially along lines 8-8 in Figure 6 and shows a first side 120 and a second side 122 of terminal 24 in second region [[98]]98_b. This better illustrates how the apertures [[98_a]]99_b allow the hot melt adhesive of the packaging 80 to seal with itself. The specific apertures shown in this section view include a lengthwise cross section of the long side of aperture 112_a, a cross section of the width of aperture 114, and a cross section of the width of the short side of aperture 112_d.

Please add the following new paragraph after the paragraph beginning on line 29 of page 3 in the Brief Description of the Drawings as originally filed ["Figure 9 is a section view . . . a region enclosed by an insulator."].

Figure 10 is a section view taken substantially along lines 8-8 of Figure 6, showing the packaging envelope through which the terminal passes, as well as the flow of adhesive through the apertures in the terminal.

Please replace the paragraph beginning on line 16 of page 9 in the Detailed Description of a Preferred Embodiment as originally filed ["The plurality of bicells 78 . . . allows any gas due to overcharging or other conditions to escape."] with the following amended paragraph:

The plurality of bicells 78 is enclosed in packaging envelope 80. Packaging envelope 80 may comprise a single sheet which is folded to enclose the bicells 78. Packaging envelope 80 may be a type of laminated, aluminized flexible material which contains four layers. The outside layer exposed to the environment is an electrical insulating material, for example, a polyester. The next underlying layer is metallic, for example, aluminum. This metallic layer reduces or eliminates the amount of moisture outside of the packaging envelope 80 to which the battery unit 20 is exposed (*i.e.*, provides a bidirectional moisture barrier). The third layer is of the same material as the outside layer. The fourth layer, layer 83, comprises an adhesive such as a conventional sealing hot melt adhesive, for example ethylene acrylic acid (EAA). The part of a sheet of packaging envelope 80 is placed under the individual battery unit 20 and a remaining part of the packaging envelope 80 is folded over the battery unit 20 such that the hot melt adhesive layer 83 comes in contact with itself in three locations. It comes in contact with itself on a first end 84 and a second end 86 and edge 91 along the axis of the fold. Packaging envelope 80 contains a vent 92, which allows any gas due to overcharging or other conditions to escape. Region 102 of the terminal

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24 is encapsulated by an electrical insulator to eliminate the shorting of terminal 24 that could be created if terminal 24 came in contact with the aluminum layer of packaging envelope 80.

Please add the following new paragraph after the paragraph beginning on line 1 of page 13 in the Detailed Description of a Preferred Embodiment as originally filed [“It should be understood that although Figure 5 . . . 24 is another aspect of the invention.”].

Figure 10 is a section view taken substantially along lines 8-8 of Figure 6, showing the packaging envelope 80 on first side 120 and second side 122 of terminal 24. Additionally, the adhesive 83 is shown on first side 120 and second side 122 of terminal 24. The adhesive flows through the apertures in order to seal with itself.